

SAFEPOL SYSTEM WITH TPV GRANULES (thermoplastic vulcanized rubber)



Elastic safety wet-pour flooring ideal for children playground floorings, applied at site in various thickness from 4cm up to 20cm.

Consists of **RECYCLED RUBBER 858** in granulometry of 1mm-3mm and **PU BINDER 1118** for the first layer (**SAFEPOL**) and of **KDF TPV granules** in granulometry of 1mm-3mm or 2mm-4mm and **PU BINDER 1118** for the upper layer (**SAFEPOL TPV MULTICOLOR**). It can create many designs and patterns in a variety of **KDF TPV** colors. It is applied in 4cm up to 20cm thickness, even on compacted, clean, dry gravel and on cement or asphalt surfaces.

Steps :

1. **PU PRIMER 870** – Polyurethane Primer. Applied by brush or airless spray.
2. **SAFEPOL** – Mixture of **PU BINDER 1118** and **RECYCLED RUBBER 858** in granulometry of 1mm–3mm. Applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder for compacting.
3. **SAFEPOL TPV MULTICOLOR** – Mixture of **PU BINDER 1118** and **KDF TPV** in granulometry of 1mm- 3mm or 2mm-4mm. Applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for compacting.

Preparation – Application

Applied on dry, stable surfaces, free of materials that might prevent bonding e.g. dust, loose particles etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 200-250 gr/m², depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the **PU BINDER 1118** and **RECYCLED RUBBER** mixture (**SAFEPOL**), in order to ensure proper adhesion, especially on the edges and endings of the playground flooring.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER** (mixture **SAFEPOL**). Following, the mixture is applied on the surface manually, using rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg for final compacting-(cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface). Consumption: 7,0kg/m²/cm.
- After 48 hours at least, follows the application of the mixture of **PU BINDER 1118** and **KDF TPV granules** in granulometry of 1mm-3mm or 2mm-4mm (mixture **SAFEPOL TPV MULTICOLOR**) using rake for spreading, (wooden) straightedge for initial smoothing, trowel for final smoothing and compacting, cylinder weighing 25 kg (or so) for final compacting (cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface). Consumption: 12kg/m²/cm.
- In case of any small irregularities on the surface may be removed by rolling the surface using a metallic cylinder when it's still fresh.
- It is highly recommended, especially in hot climates (like climates in Middle East countries, where sun exposure is too high) that the surface is protected from UV with two cross-layers of **POLYSPORT MAT 1052**, a UV-resistant polyurethane paint, applied by airless spray on the surface in the desired color as colored UV protection

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Important Remarks

- ✓ During summer or during temperatures over 35 degrees, ideal time for the application of **SAFEPOL SYSTEM WITH TPV GRANULES** is between 21:00 and 09:00 and temperature less than 30°C, while in the winter, the minimum bearing temperature during application and drying should be over 10°C.
- ✓ The freshly coated surface should be protected from high temperatures, wind, rain and frost for at least the first 24 hours.
- ✓ In case it gets damaged, it is simply repaired and recoated on the spot.

Substrate

Asphalt is the safer subfloor for sport floorings for sure and must be always preferred than concrete surfaces.

A.ASPHALT SUBSTRATE

The asphalt must have a slope of 0,7-1% **and must dry for at least 30 days so all solvents from the asphalt evaporate.**

The asphalt subfloor should be applied on well compacted 150 mm road base subfloor and asphalt should be laid in one layer (and not 2) in 6 to 8 cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.

So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber floorings.

B.CONCRETE SURFACES

Concrete surface must be powerroweled and must be smooth with a slope of 0,7-1%.

Then concrete must dry at least for 40 days and then the application takes place if there is no arising humidity for the subfloor. Before the application takes place, there must be a **proper gridding** of the surface by a grinder machine to open the porous accordingly and also a **measurement by special instrument to measure humidity on the surface and in 10cm under the surface.**

Generally concrete is a risky subfloor and there may be problems **with arising humidity, especially in areas where the sea level is really high and when the sea is close.**

Always make expansion joints in large areas of concrete, in order to avoid uncontrollable cracks and failures.